

From: [R4LIMS](#)
To: [Lattimore, Leigh](#)
Cc: [Turner, Nardina](#); Lkrebs@otie.com; [Saskowski, Ronald](#); gkowsalski@otie.com; [Wellborn, Floyd](#); [Aker, Sandra](#)
Subject: R4 LIMS Results: Project 20-0010, E194003 TMTL 10 29 19 0838
Date: Tuesday, October 29, 2019 10:46:06 PM
Attachments: [E194003 TMTL FINAL 10 29 19 0838.PDF](#)
[E194003 TMTL FINAL 10 29 19 0838 - 20-0010 - WESTSIDE LEAD 10-29-2019.GAN000407160.Dat](#)

On Tuesday, October 29, 2019, results for the following were released by the Region 4 Laboratory:

Analyses:

Total Metals (TMTL)

Project Number: 20-0010

Project Name: Westside Lead

City: Atlanta **County:** Fulton **State:** GA

These results were reported by:

Floyd Wellborn (E-mail: Wellborn.Floyd@epa.gov)

If you have questions concerning the laboratory results, please feel free to contact the laboratory personnel shown above as having reported the data. We also encourage you to provide feedback to the Region 4 laboratory by filling out our online (*EPA internal network only*) [Customer Survey Form](#).

These results are for the following Sample Type(s):

Soil (Surface Soil)

Water (Equipment Rinse Blank)

PDF DATA RESULTS REPORT FILE ATTACHMENT:

An Adobe Acrobat PDF file is attached to this message that contains final results for the analyses as indicated in the data report.

DATA EXPORT FILE ATTACHMENT:

If attached, data export files will be tab delimited ASCII text files contained in a file that has been formatted using the ZIP archiving format (.Dat extension). Please consult your local computer support personnel if you have problems extracting these files. If you have questions about the data file formats and the information contained in these files, or if you would like to request export files for previously reported data, use the contact information shown below to contact the appropriate person with your concerns. To generate export files for previously reported data we'll need the name of the PDF report file that was attached to the original transmittal message.

For questions concerning this message and attachments, or any other LIMS or data reporting issues, please call the LSASD PC Hotline at 706-355-8825 or send an email to r4lims@epa.gov.

SAMPLE DISPOSAL POLICY:

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

October 29, 2019

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 20-0010, Westside Lead

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Leigh Lattimore

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Total Metals (TMTL)

Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 200.8 (Water)	ISO
Total Metals	EPA 6010 (Soil)	ISO
Total Metals	EPA 6010 (Water)	ISO



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cc: Nardina Turner



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 20-0010, Westside Lead

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
ESL-100219-1	E194003-01	Equipment Rinse Blank	10/2/19 13:15	10/3/19 10:05
ESL-100219-2	E194003-02	Equipment Rinse Blank	10/2/19 13:30	10/3/19 10:05
WSL-1066C	E194003-03	Surface Soil	9/24/19 11:30	10/3/19 10:05
WSL-1256A	E194003-04	Surface Soil	9/23/19 11:20	10/3/19 10:05
WSL-1285C	E194003-05	Surface Soil	9/23/19 10:35	10/3/19 10:05
WSL-1287B	E194003-06	Surface Soil	9/23/19 09:10	10/3/19 10:05
WSL-1287C	E194003-07	Surface Soil	9/23/19 09:30	10/3/19 10:05
WSL-1347B	E194003-08	Surface Soil	9/24/19 09:25	10/3/19 10:05
WSL-1347C	E194003-09	Surface Soil	9/24/19 09:09	10/3/19 10:05
WSL-1347E	E194003-10	Surface Soil	9/24/19 09:09	10/3/19 10:05
WSL-1347Edup	E194003-11	Surface Soil	9/24/19 09:09	10/3/19 10:05



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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
OM-1	Matrix Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO	ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board. Refer to the certificate and scope of accreditation AT-1644 at: http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd
NR	The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: ESL-100219-1

Lab ID: E194003-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/2/19 13:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	0.50	U	ug/L	0.50	10/16/19 11:06	10/24/19 16:04	EPA 200.8
7439-92-1	Lead	20	U	ug/L	20	10/16/19 11:02	10/21/19 16:40	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: ESL-100219-2

Lab ID: E194003-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/2/19 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	0.50	U	ug/L	0.50	10/16/19 11:06	10/24/19 16:07	EPA 200.8
7439-92-1	Lead	20	U	ug/L	20	10/16/19 11:02	10/21/19 16:43	EPA 6010



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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1066C

Lab ID: E194003-03

Station ID: WSL1066C

Matrix: Surface Soil

Date Collected: 9/24/19 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	13		mg/kg dry	0.20	10/16/19 10:52	10/24/19 16:40	EPA 200.8
7439-92-1	Lead	480		mg/kg dry	9.8	10/16/19 10:47	10/21/19 17:15	EPA 6010



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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1256A

Lab ID: E194003-04

Station ID: WSL1256A

Matrix: Surface Soil

Date Collected: 9/23/19 11:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.8		mg/kg dry	0.20	10/16/19 10:52	10/24/19 16:43	EPA 200.8
7439-92-1	Lead	480		mg/kg dry	9.9	10/16/19 10:47	10/21/19 17:19	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1285C

Lab ID: E194003-05

Station ID: WSL1285C

Matrix: Surface Soil

Date Collected: 9/23/19 10:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.2		mg/kg dry	0.20	10/16/19 10:52	10/24/19 16:47	EPA 200.8
7439-92-1	Lead	350		mg/kg dry	10	10/16/19 10:47	10/21/19 17:22	EPA 6010



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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1287B

Lab ID: E194003-06

Station ID: WSL1287B

Matrix: Surface Soil

Date Collected: 9/23/19 9:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	4.4		mg/kg dry	0.20	10/16/19 10:52	10/24/19 16:51	EPA 200.8
7439-92-1	Lead	470		mg/kg dry	9.8	10/16/19 10:47	10/21/19 17:26	EPA 6010



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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1287C

Lab ID: E194003-07

Station ID: WSL1287C

Matrix: Surface Soil

Date Collected: 9/23/19 9:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	7.7		mg/kg dry	0.20	10/16/19 10:52	10/24/19 16:54	EPA 200.8
7439-92-1	Lead	1300		mg/kg dry	20	10/16/19 10:47	10/21/19 17:29	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

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D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1347B

Lab ID: E194003-08

Station ID: WSL1347B

Matrix: Surface Soil

Date Collected: 9/24/19 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	3.4		mg/kg dry	0.20	10/16/19 10:52	10/24/19 16:58	EPA 200.8
7439-92-1	Lead	320		mg/kg dry	9.9	10/16/19 10:47	10/21/19 17:36	EPA 6010



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1347C

Lab ID: E194003-09

Station ID: WSL1347C

Matrix: Surface Soil

Date Collected: 9/24/19 9:09

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.5		mg/kg dry	0.20	10/16/19 10:52	10/24/19 17:09	EPA 200.8
7439-92-1	Lead	430		mg/kg dry	10	10/16/19 10:47	10/21/19 17:40	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1347E

Lab ID: E194003-10

Station ID: WSL1347E

Matrix: Surface Soil

Date Collected: 9/24/19 9:09

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.2		mg/kg dry	0.20	10/16/19 10:52	10/24/19 17:12	EPA 200.8
7439-92-1	Lead	400		mg/kg dry	9.8	10/16/19 10:47	10/21/19 17:44	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0010, Westside Lead

Sample ID: WSL-1347E_{dup}

Lab ID: E194003-11

Station ID: WSL1347E

Matrix: Surface Soil

Date Collected: 9/24/19 9:09

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	4.2		mg/kg dry	0.20	10/16/19 10:52	10/24/19 17:16	EPA 200.8
7439-92-1	Lead	400	J, QM-1	mg/kg dry	10	10/16/19 10:47	10/21/19 17:47	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1910049 - M 200.2 Metals Soil

Blank (1910049-BLK1)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	U	2.0	mg/kg dry							U
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Blank (1910049-BLK2)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	U	2.0	mg/kg dry							U
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LCS (1910049-BS1)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	93.096	2.0	mg/kg dry	100.00		93.1	85-115			
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Matrix Spike (1910049-MS1)

Source: E194003-11

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	475.04	9.9	mg/kg dry	99.226	402.28	73.3	75-125			QM-1
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Matrix Spike Dup (1910049-MSD1)

Source: E194003-11

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	489.97	10	mg/kg dry	99.701	402.28	87.9	75-125	3.09	20	
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MRL Verification (1910049-PS1)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	2.0316	2.0	mg/kg dry	2.0000		102	70-130			MRL-3
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Batch 1910051 - M 200.2 Metals Soil

Blank (1910051-BLK1)

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8

Arsenic	U	0.10	mg/kg dry							U
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Blank (1910051-BLK2)

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8

Arsenic	U	0.10	mg/kg dry							U
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LCS (1910051-BS1)

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8

Arsenic	47.338	1.2	mg/kg dry	50.000		94.7	85-115			
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1910051 - M 200.2 Metals Soil

Matrix Spike (1910051-MS1)

Source: E194003-11

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8

Arsenic	45.246	1.2	mg/kg dry	49.613	4.1842	82.8	70-130			
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Matrix Spike Dup (1910051-MSD1)

Source: E194003-11

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8

Arsenic	46.981	1.2	mg/kg dry	49.850	4.1842	85.8	70-130	3.76	20	
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MRL Verification (1910051-PS1)

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8

Arsenic	0.11037	0.10	mg/kg dry	0.10000		110	65-135			MRL-3
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Batch 1910053 - M 200.2 Metals Water

Blank (1910053-BLK1)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	U	20	ug/L							U
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LCS (1910053-BS1)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	194.34	20	ug/L	200.00		97.2	85-115			
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Matrix Spike (1910053-MS1)

Source: E194003-02

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	195.65	20	ug/L	200.00	3.2682	96.2	75-125			
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Matrix Spike Dup (1910053-MSD1)

Source: E194003-02

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	195.61	20	ug/L	200.00	3.2682	96.2	75-125	0.0191	20	
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MRL Verification (1910053-PS1)

Prepared: 10/16/19 Analyzed: 10/21/19

EPA 6010

Lead	19.544	20	ug/L	20.000		97.7	70-130			MRL-2, U
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Batch 1910054 - M 200.2 Metals Water

Blank (1910054-BLK1)

Prepared: 10/16/19 Analyzed: 10/24/19

EPA 200.8



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910054 - M 200.2 Metals Water										
Blank (1910054-BLK1)				Prepared: 10/16/19 Analyzed: 10/24/19						
Arsenic	U	0.50	ug/L							U
LCS (1910054-BS1)				Prepared: 10/16/19 Analyzed: 10/24/19						
EPA 200.8										
Arsenic	205.17	5.0	ug/L	200.00		103	85-115			
Matrix Spike (1910054-MS1)				Source: E194003-02		Prepared: 10/16/19 Analyzed: 10/24/19				
EPA 200.8										
Arsenic	205.52	5.0	ug/L	200.00	U	103	70-130			
Matrix Spike Dup (1910054-MSD1)				Source: E194003-02		Prepared: 10/16/19 Analyzed: 10/24/19				
EPA 200.8										
Arsenic	198.74	5.0	ug/L	200.00	U	99.4	70-130	3.36	20	
MRL Verification (1910054-PS1)				Prepared: 10/16/19 Analyzed: 10/24/19						
EPA 200.8										
Arsenic	1.0675	0.50	ug/L	1.0000		107	65-135			MRL-2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0010

Project: 20-0010, Westside Lead - Reported by Floyd Wellborn

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits